

Nikita Jayakar

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EDUCATION

New York University

Brooklyn, NY

Master of Science in Computer Science, CGPA: 3.614/4

University of Mumbai

Mumbai, India

Bachelor of Engineering in Computer Engineering, CGPA: 8.83/10, top 5% of the class

WORK EXPERIENCE

Software Engineer - Cloud Infrastructure and Reliability

Jan 2023 – Present

New York Life Insurance

New York, NY

- Implemented infrastructure and services for **8+ app teams** using Infrastructure-as-Code on AWS
- Supported app teams & guided them in infrastructural design decisions resulting in reduction of cloud-related issues by **up to 30%**; advised app teams to migrate their apps to cloud for reducing operational costs by at least **20%**
- Participated in 11 monthly platform releases and conducted 100+ code reviews with app teams
- Remediated platform defects and 500+ security vulnerabilities for **120** applications

Software Developer - Full Stack

June 2021 – Dec 2022

New York Life Insurance

Jersey City, NJ

- Improved Annuities website by migrating code from .NET to Angular.js; led to **10% increase in sales** in Q4 2022
- Developed a Python-based tool for automatic documentation of XML requests/responses from website transactions
- Followed Agile methodology to implement new features and maintain software framework of Annuities products

Graduate Research Assistant

December 2020 – May 2021

New York University

Brooklyn, NY

- Built data pipelines to process, visualize, and model data in the form of video transcripts, assignments, discussion forums, and lecture handbooks of 25 modules of the NYU Tandon Bridge program
- Generated word embeddings of preprocessed data using pre-trained LLMs, clustered modules using k-means, performed topic modeling of clusters and visualized the network graph
- Performed sentiment analysis for modules & suggested revised lecture flow to reduce student dropout rate by **10%**

Software Engineer Intern

June 2020 – August 2020

New York Life Insurance

Jersey City, NJ

- Improved the UI/UX of the Insurance Agent Portal and implemented an SVM algorithm for classifying alerts
- Trained LinearSVC and deep neural nets for classifying an internal dataset of 1 million incident tickets with Keras and Tensorflow at an accuracy of **70.6%**; **Won the Annual Intern Project Competition** among **20** interns

ACADEMIC PROJECTS

Data Visualization of Amazon bestselling authors ([link](#))

March 2021 – May 2021

- Employed ETL & D3.js to clean, structure, and interactively visualize the Amazon top 50 bestselling authors data

Image Segmentation Using Satellite Imagery ([link](#))

September 2020 – December 2020

- Trained a Deep Learning model for image segmentation based on the U-net architecture with Keras & TensorFlow
- Achieved **85% accuracy** in precisely segmenting test satellite images into roads, buildings, and green-cover

GutenTag - The News article tagger ([link](#))

April 2020 – May 2020

- Leveraged LDA algorithm for unsupervised auto-categorization of articles based on keywords with PySpark
- Performed sentiment analysis on each article using NLP and had results imported into Elasticsearch

PUBLICATIONS AND ACHIEVEMENTS

- N. Jayakar and 5 others, "[Web Application for Screening Resume](#)," 2019 International Conference on Nascent Technologies in Engineering(ICNTE), Navi Mumbai, India, 2019, pp. 1-7, doi:10.1109/ICNTE44896.2019.8945869
- **Winner**, Smart India Hackathon(SIH) 2019 - software edition (team event), March 2019 amongst **111** teams ([link](#))
- **Winner** of Annual Summer Intern Project competition at New York Life Insurance among 20 interns

TECHNICAL SKILLS

- **Proficient:** Python, MySQL, OpenCV, MS SQL Server, HTML/CSS, Git, AWS, Terraform, C/C++, Angular.js, PySpark, Tensorflow/Keras, NumPy, Pandas
- **Familiar:** Go, JavaScript, React.js, Flask, R, Java, Tableau, Docker, PyTorch, C#, MongoDB, .NET

POSITIONS OF RESPONSIBILITY

- Technology **Summer Internship Mentor** at New York Life Insurance in 2022 and 2023 for 50+ interns
- Represented Cloud team of 19 people at New York Life Insurance as **Giving Campaign Volunteer Captain 2024**